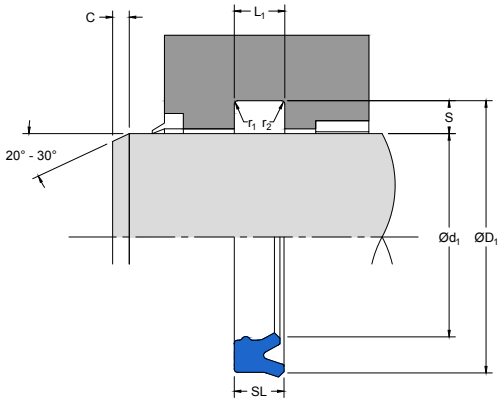
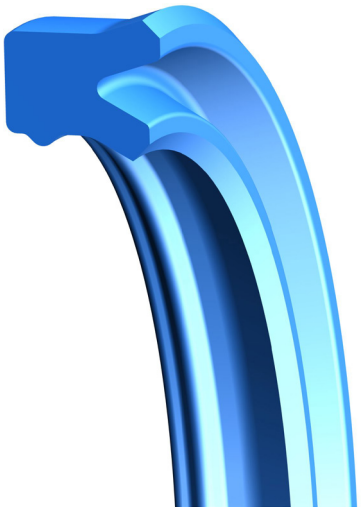


605

ROD SEAL

Twin Lip
Polyurethane

DESIGN



The Hallite 605 twin lip, asymmetric rod seal is designed with precision trimmed sealing lips to provide a dry sealing solution in light and medium-duty applications. The seal can be considered for use in heavy-duty applications when used with a suitable full depth back-up ring. The sealing lips are precision trimmed at an angle to give optimal rod sealing performance.

The range covers most standard housings used in Europe, North America and Asia.

The Hallite 605 is designed to have interference in the seal housing groove and has a secondary lip. The secondary sealing lip located behind the primary sealing lip improves stability of the seal in the gland. The inner dynamic lip is shorter and more robust to improving sealing and compression set characteristics over conventional, symmetrical U-rings.

The Hallite 605 is moulded in Hythane® 181, Hallite's high-performance polyurethane, for easy installation and excellent low temperature performance.

FEATURES

- General purpose rod seal
- Robust design
- Excellent wear resistance
- Increase seal stability
- Performs well over wide temperature range and is extremely effective in low temperatures
- Primary lip protection
- Easy to install

MATERIALS

As standard, this product comes in the following material. Contact your local Hallite technical team if you would like to find out if this profile can be made in a custom material to suit your application. For further material details, please refer to the Hallite Material Table.

MATERIAL OPTIONS	Name	Type	Colour
Standard	Hythane® 181	TPU-EU	Blue

TECHNICAL DETAILS

OPERATING CONDITIONS	METRIC	INCH
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	400 bar	6000 psi
Maximum Pressure with Backup Ring	700 bar	10000 psi

NOTE

Data given are maximum values and can apply depending on specific application. Maximum ratings of temperature, pressure, or operating speeds are dependent on fluid medium, surface, gap value, and other variables such as dynamic or static service. Maximum values are not intended for use together at the same time, e.g. max temperature and max pressure. Please contact your Hallite technical representative for application support.

NOTE

Pressure Rating: Can be extended with use of back-up ring. Seek technical advice from local Hallite office.

MAXIMUM EXTRUSION GAP			
Pressure bar	160	250	400
Maximum Gap mm	0.60	0.50	0.40
Pressure psi	2400	3750	6000
Maximum Gap in	0.024	0.020	0.016

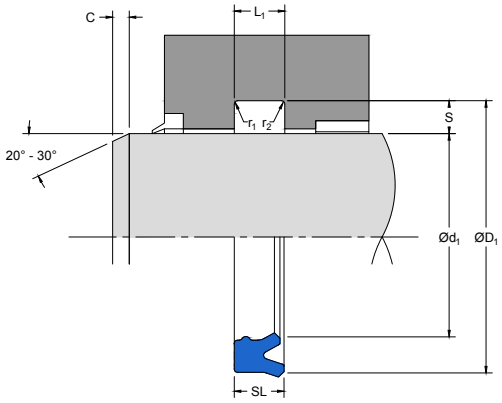
NOTE

Figures show the maximum permissible gap all on one side, for rod seals using minimum rod Ø and maximum clearance Ø and for piston seals using the minimum clearance Ø and maximum bore Ø. Refer to Housing Design section.

SURFACE ROUGHNESS	µmRa	µmRz	µmRt	µinRa	µinRz	µinRt
Dynamic Sealing Face $Ød_1$	0.1 - 0.4	1.6 max	4 max	4 - 16	63 max	157 max
Static Sealing Face $ØD_1$	1.6 max	6.3 max	10 max	63 max	250 max	394 max
Static Housing Faces L_1	3.2 max	10 max	16 max	125 max	394 max	630 max

CHAMFERS & RADII						
Groove Section <S mm	4.00	5.00	7.50	10.00	12.50	15.00
Min Chamfer C mm	3.00	3.50	5.00	6.50	7.00	8.00
Max Fillet Rad r_1 mm	0.20	0.40	0.80	0.80	1.20	1.60
Max Fillet Rad r_2 mm	0.40	0.80	1.20	1.20	1.60	2.40
Groove Section ≤ S in	0.125	0.187	0.250	0.312	0.375	0.500
Min Chamfer C in	0.093	0.093	0.125	0.156	0.187	0.187
Max Fillet Rad r_1 in	0.008	0.008	0.016	0.032	0.032	0.032
Max Fillet Rad r_2 in	0.016	0.016	0.032	0.047	0.047	0.047

TOLERANCES	$Ød_1$	$ØD_1$	L_1
mm	f9	Js11	+0.25 -0
in	f9	Js11	+0.010 -0



605

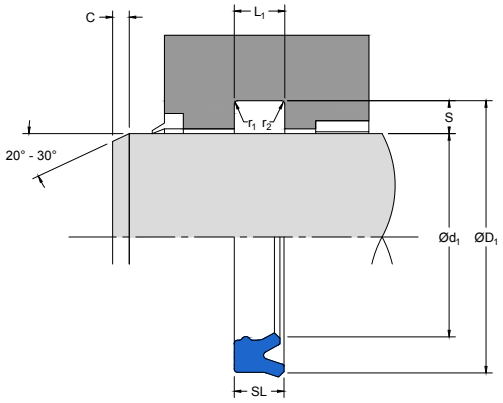
ROD SEAL

Twin Lip
Polyurethane

PART NUMBER RANGE

METRIC						
$Ød_1$	TOL f9	$ØD_1$	TOL Js11	SL	L_1 +0.25-0	PART No.
6.00	-0.01 -0.04	15.00	+0.06 -0.06	7.30	8.00	4790600
6.00	-0.01 -0.04	16.00	+0.06 -0.06	7.00	8.00	4580600
8.00	-0.01 -0.05	18.00	+0.06 -0.06	7.00	8.00	4580500
10.00	-0.01 -0.05	15.00	+0.06 -0.06	3.60	4.00	4402300
12.00	-0.02 -0.06	18.00	+0.06 -0.06	4.00	4.50	4578000
12.00	-0.02 -0.06	18.00	+0.06 -0.06	5.70	6.30	4314900
12.00	-0.02 -0.06	19.00	+0.07 -0.07	4.50	5.00	4341600
12.00	-0.02 -0.06	19.00	+0.07 -0.07	5.10	5.60	4710000‡
12.00	-0.02 -0.06	20.00	+0.07 -0.07	5.70	6.30	4310900‡
12.00	-0.02 -0.06	22.00	+0.07 -0.07	7.30	8.00	4857200‡
12.00	-0.02 -0.06	22.00	+0.07 -0.07	7.70	9.00	4315000
12.70	-0.02 -0.06	18.00	+0.06 -0.06	5.50	6.00	4370400
13.00	-0.02 -0.06	20.00	+0.07 -0.07	4.50	5.00	4351600
14.00	-0.02 -0.06	21.00	+0.07 -0.07	5.10	5.60	4710100‡
14.00	-0.02 -0.06	22.00	+0.07 -0.07	5.70	6.30	4311000‡
14.00	-0.02 -0.06	24.00	+0.07 -0.07	7.30	8.00	4310000‡
15.00	-0.02 -0.06	22.00	+0.07 -0.07	5.70	6.30	4762200

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Part numbers suffixed by”‡” indicate housing sizes to meet ISO5597.

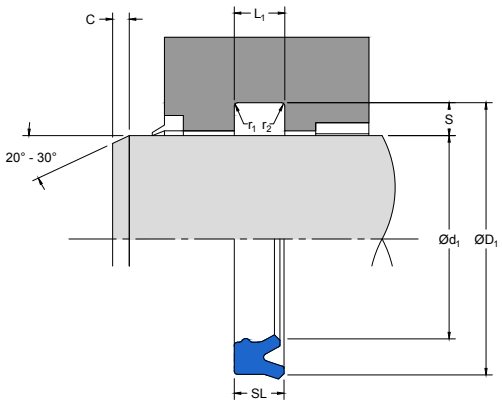


PART NUMBER RANGE

METRIC						
$Ød_1$	TOL f9	$ØD_1$	TOL Js11	SL	L_1 +0.25-0	PART No.
15.37	-0.02 -0.06	25.50	+0.07 -0.07	6.35	7.40	4333800
16.00	-0.02 -0.06	22.00	+0.07 -0.07	4.50	5.00	4341700
16.00	-0.02 -0.06	22.00	+0.07 -0.07	5.00	6.00	4314100
16.00	-0.02 -0.06	24.00	+0.07 -0.07	5.80	6.30	4295200‡
16.00	-0.02 -0.06	26.00	+0.07 -0.07	7.70	9.00	4311100
18.00	-0.02 -0.06	24.00	+0.07 -0.07	4.50	5.00	4712000
18.00	-0.02 -0.06	25.00	+0.07 -0.07	5.00	6.00	4314200
18.00	-0.02 -0.06	26.00	+0.07 -0.07	5.00	5.70	4611000
18.00	-0.02 -0.06	26.00	+0.07 -0.07	5.70	6.30	4311200‡
18.00	-0.02 -0.06	26.00	+0.07 -0.07	6.00	7.00	4333900
18.00	-0.02 -0.06	26.00	+0.07 -0.07	8.20	9.00	4863000
18.00	-0.02 -0.06	28.00	+0.07 -0.07	7.70	9.00	4305100
20.00	-0.02 -0.07	25.00	+0.07 -0.07	3.20	3.50	4332100
20.00	-0.02 -0.07	26.00	+0.07 -0.07	5.00	5.50	4315100
20.00	-0.02 -0.07	26.00	+0.07 -0.07	6.50	7.60	4826000
20.00	-0.02 -0.07	27.00	+0.07 -0.07	6.10	6.70	4702900
20.00	-0.02 -0.07	28.00	+0.07 -0.07	5.00	5.70	4611100

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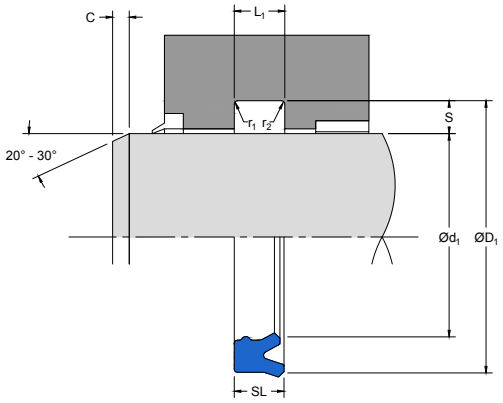
ROD SEAL

Twin Lip
Polyurethane

PART NUMBER RANGE

METRIC						
$Ød_1$	TOL f9	$ØD_1$	TOL Js11	SL	L_1 +0.25-0	PART No.
20.00	-0.02 -0.07	28.00	+0.07 -0.07	5.70	6.30	4362100‡
20.00	-0.02 -0.07	28.00	+0.07 -0.07	6.30	7.00	4626000
20.00	-0.02 -0.07	30.00	+0.07 -0.07	6.00	7.00	4611200
20.00	-0.02 -0.07	30.00	+0.07 -0.07	7.30	8.00	4857300‡
20.00	-0.02 -0.07	30.00	+0.07 -0.07	7.70	9.00	4305200
20.00	-0.02 -0.07	30.00	+0.07 -0.07	10.00	11.00	4310300
22.00	-0.02 -0.07	27.50	+0.07 -0.07	4.50	5.00	4896100
22.00	-0.02 -0.07	30.00	+0.07 -0.07	5.00	5.70	4617500
22.00	-0.02 -0.07	30.00	+0.07 -0.07	5.70	6.30	4305300‡
22.00	-0.02 -0.07	30.00	+0.07 -0.07	6.30	7.00	4626100
22.00	-0.02 -0.07	30.00	+0.07 -0.07	7.30	8.00	4356800
22.00	-0.02 -0.07	32.00	+0.08 -0.08	7.30	8.00	4310800‡
22.00	-0.02 -0.07	32.00	+0.08 -0.08	8.20	9.00	4863300
22.00	-0.02 -0.07	32.00	+0.08 -0.08	10.00	11.00	4311300
22.40	-0.02 -0.07	30.00	+0.07 -0.07	5.00	5.70	4611300
22.40	-0.02 -0.07	32.40	+0.08 -0.08	8.00	9.00	4616600
24.00	-0.02 -0.07	30.00	+0.07 -0.07	4.50	5.00	4773500

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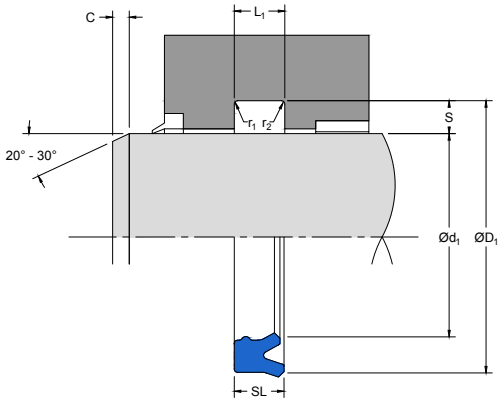


PART NUMBER RANGE

METRIC						
$Ød_1$	TOL f9	$ØD_1$	TOL Js11	SL	L_1 +0.25-0	PART No.
25.00	-0.02 -0.07	33.00	+0.08 -0.08	5.00	5.70	4610100
25.00	-0.02 -0.07	33.00	+0.08 -0.08	5.70	6.30	4305400‡
25.00	-0.02 -0.07	33.00	+0.08 -0.08	6.80	7.50	4333500
25.00	-0.02 -0.07	33.00	+0.08 -0.08	8.00	9.00	4807800
25.00	-0.02 -0.07	33.00	+0.08 -0.08	10.00	11.00	4315200
25.00	-0.02 -0.07	35.00	+0.08 -0.08	7.30	8.00	4512000‡
25.00	-0.02 -0.07	35.00	+0.08 -0.08	7.70	9.00	4311400
25.00	-0.02 -0.07	35.00	+0.08 -0.08	10.00	11.00	4310500
25.00	-0.02 -0.07	37.00	+0.08 -0.08	10.00	11.00	4379900
25.00	-0.02 -0.07	40.00	+0.08 -0.08	10.00	11.00	4322900
26.00	-0.02 -0.07	36.00	+0.08 -0.08	7.00	8.00	4459400
28.00	-0.02 -0.07	35.50	+0.08 -0.08	5.00	5.70	4611400
28.00	-0.02 -0.07	36.00	+0.08 -0.08	5.70	6.30	4703000‡
28.00	-0.02 -0.07	36.00	+0.08 -0.08	6.30	7.00	4626200
28.00	-0.02 -0.07	38.00	+0.08 -0.08	7.30	8.00	4305500‡
28.00	-0.02 -0.07	43.00	+0.08 -0.08	11.40	12.50	4399000‡
30.00	-0.02 -0.07	38.00	+0.08 -0.08	5.70	6.30	4704500

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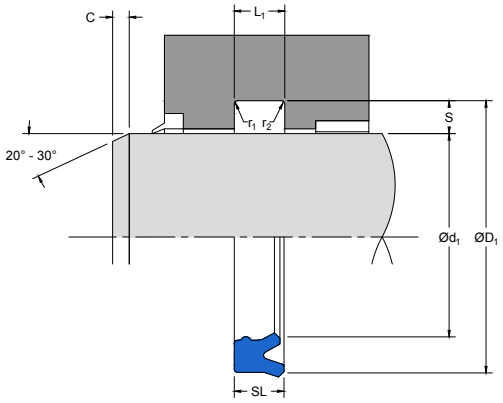
ROD SEAL

Twin Lip
Polyurethane

PART NUMBER RANGE

METRIC						
$Ød_1$	TOL f9	$ØD_1$	TOL Js11	SL	L_1 +0.25-0	PART No.
30.00	-0.02 -0.07	38.00	+0.08 -0.08	6.30	7.00	4402700
30.00	-0.02 -0.07	40.00	+0.08 -0.08	6.00	7.00	4610200
30.00	-0.02 -0.07	40.00	+0.08 -0.08	7.00	7.70	4703100
30.00	-0.02 -0.07	40.00	+0.08 -0.08	7.30	8.00	4857400
30.00	-0.02 -0.07	40.00	+0.08 -0.08	8.50	9.50	4826100
30.00	-0.02 -0.07	40.00	+0.08 -0.08	10.00	11.00	4304600
30.00	-0.02 -0.07	42.00	+0.08 -0.08	10.90	12.00	4383100
30.00	-0.02 -0.07	43.00	+0.08 -0.08	10.00	11.00	4625700
30.00	-0.02 -0.07	45.00	+0.08 -0.08	9.00	10.00	4618900
30.00	-0.02 -0.07	45.00	+0.08 -0.08	10.00	11.00	4857500
30.00	-0.02 -0.07	50.00	+0.08 -0.08	10.00	11.00	4328500
32.00	-0.03 -0.09	40.00	+0.08 -0.08	6.00	7.00	4310700
32.00	-0.03 -0.09	40.00	+0.08 -0.08	6.70	7.70	4334000
32.00	-0.03 -0.09	40.00	+0.08 -0.08	7.70	9.00	4315300
32.00	-0.03 -0.09	41.50	+0.08 -0.08	7.90	8.90	4334100
32.00	-0.03 -0.09	42.00	+0.08 -0.08	5.70	6.30	4360100‡
32.00	-0.03 -0.09	42.00	+0.08 -0.08	6.00	7.00	4616100

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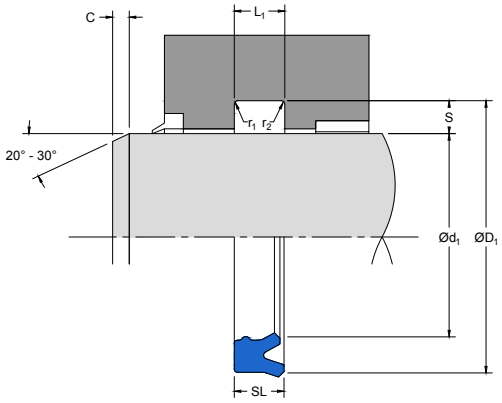


PART NUMBER RANGE

METRIC						
$Ød_1$	TOL f9	$ØD_1$	TOL Js11	SL	L_1 +0.25-0	PART No.
32.00	-0.03 -0.09	42.00	+0.08 -0.08	7.30	8.00	4374200‡
32.00	-0.03 -0.09	42.00	+0.08 -0.08	10.00	11.00	4305600
32.00	-0.03 -0.09	45.00	+0.08 -0.08	10.00	11.00	4597700
32.00	-0.03 -0.09	47.00	+0.08 -0.08	9.10	10.00	4329600
32.00	-0.03 -0.09	47.00	+0.08 -0.08	10.00	11.00	4338900
32.00	-0.03 -0.09	48.00	+0.08 -0.08	10.00	11.00	4492500
35.00	-0.03 -0.09	43.00	+0.08 -0.08	5.70	6.30	4703200
35.00	-0.03 -0.09	43.00	+0.08 -0.08	6.30	7.00	4402800
35.00	-0.03 -0.09	43.00	+0.08 -0.08	8.20	9.00	4309000
35.00	-0.03 -0.09	45.00	+0.08 -0.08	6.00	7.00	4611500
35.00	-0.03 -0.09	45.00	+0.08 -0.08	7.00	8.00	4619200
35.00	-0.03 -0.09	45.00	+0.08 -0.08	7.70	9.00	4314300
35.00	-0.03 -0.09	45.00	+0.08 -0.08	10.00	11.00	4305700
35.00	-0.03 -0.09	50.00	+0.08 -0.08	9.00	10.00	4611600
35.00	-0.03 -0.09	50.00	+0.08 -0.08	10.00	11.00	4322500
35.50	-0.03 -0.09	45.00	+0.08 -0.08	6.00	7.00	4616700
35.50	-0.03 -0.09	50.50	+0.10 -0.10	10.00	11.00	4616900

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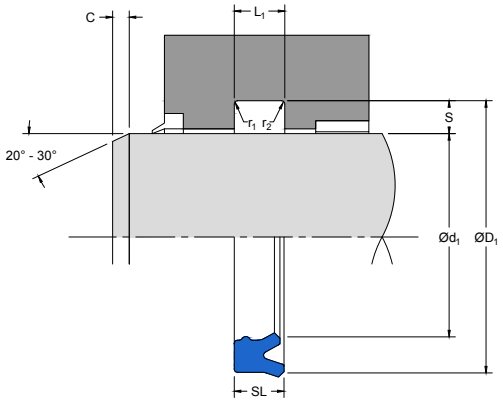
ROD SEAL

Twin Lip
Polyurethane

PART NUMBER RANGE

METRIC						
$Ød_1$	TOL f9	$ØD_1$	TOL Js11	SL	L_1 +0.25-0	PART No.
36.00	-0.03 -0.09	44.00	+0.08 -0.08	6.40	7.50	4373900
36.00	-0.03 -0.09	44.00	+0.08 -0.08	8.20	9.00	4395000
36.00	-0.03 -0.09	46.00	+0.08 -0.08	5.70	6.30	4372100‡
36.00	-0.03 -0.09	46.00	+0.08 -0.08	7.30	8.00	4304900‡
36.00	-0.03 -0.09	46.00	+0.08 -0.08	10.00	11.00	4305000
36.00	-0.03 -0.09	51.00	+0.10 -0.10	10.00	11.00	4771600
37.00	-0.03 -0.09	47.00	+0.08 -0.08	10.00	11.00	4862900
38.00	-0.03 -0.09	48.00	+0.08 -0.08	8.00	9.00	4619100
38.00	-0.03 -0.09	48.00	+0.08 -0.08	10.00	11.00	4515500
38.00	-0.03 -0.09	50.00	+0.08 -0.08	10.00	11.00	4586300
38.00	-0.03 -0.09	53.00	+0.10 -0.10	10.00	11.00	4480900
40.00	-0.03 -0.09	48.00	+0.08 -0.08	5.70	6.30	4703300
40.00	-0.03 -0.09	48.00	+0.08 -0.08	8.20	9.00	4396800
40.00	-0.03 -0.09	49.52	+0.08 -0.08	9.50	10.50	4334200
40.00	-0.03 -0.09	50.00	+0.08 -0.08	6.00	7.00	4610300
40.00	-0.03 -0.09	50.00	+0.08 -0.08	7.30	8.00	4311600‡
40.00	-0.03 -0.09	50.00	+0.08 -0.08	9.00	10.00	4866800

NOTE Part numbers commencing “46 . . . . .” or suffixed by “Ɪ” are designed to suit popular Asian housings.
Part numbers suffixed by”‡” indicate housing sizes to meet ISO5597.

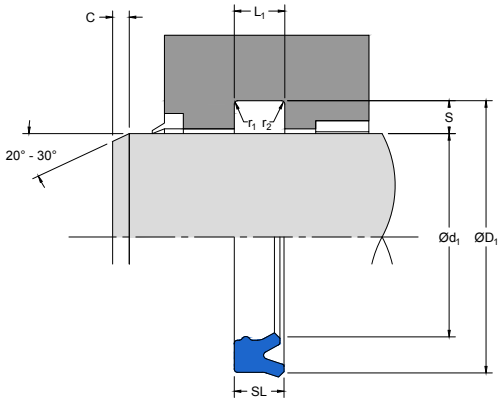


PART NUMBER RANGE

METRIC						
$Ød_1$	TOL f9	$ØD_1$	TOL Js11	SL	L_1 +0.25-0	PART No.
40.00	-0.03 -0.09	50.00	+0.08 -0.08	10.00	11.00	4293800
40.00	-0.03 -0.09	52.00	+0.10 -0.10	10.90	12.00	4381800
40.00	-0.03 -0.09	55.00	+0.10 -0.10	7.30	8.00	4703400
40.00	-0.03 -0.09	55.00	+0.10 -0.10	9.00	10.00	4611700
40.00	-0.03 -0.09	55.00	+0.10 -0.10	10.00	11.00	4328300
40.00	-0.03 -0.09	55.00	+0.10 -0.10	11.40	12.50	4857600‡
42.00	-0.03 -0.09	50.00	+0.08 -0.08	5.70	6.30	4744400
42.00	-0.03 -0.09	50.00	+0.08 -0.08	7.50	8.00	4373800
42.00	-0.03 -0.09	52.00	+0.10 -0.10	6.00	7.00	4618100
42.00	-0.03 -0.09	52.00	+0.10 -0.10	10.00	11.00	4338200
43.00	-0.03 -0.09	53.00	+0.10 -0.10	6.00	7.00	4619700
45.00	-0.03 -0.09	53.00	+0.10 -0.10	7.30	8.00	4619800
45.00	-0.03 -0.09	53.00	+0.10 -0.10	8.10	9.00	4402900
45.00	-0.03 -0.09	53.00	+0.10 -0.10	11.80	13.00	4315600
45.00	-0.03 -0.09	55.00	+0.10 -0.10	5.60	6.30	4479700‡
45.00	-0.03 -0.09	55.00	+0.10 -0.10	6.00	7.00	4610400
45.00	-0.03 -0.09	55.00	+0.10 -0.10	7.30	8.00	4305900‡

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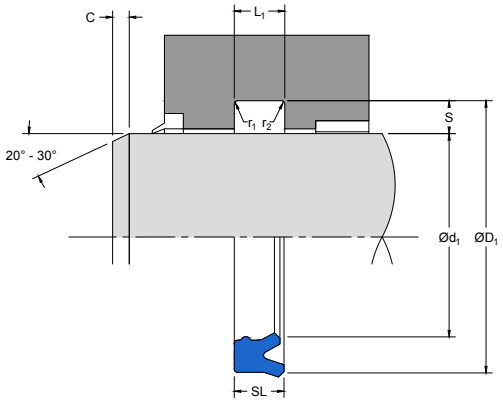
ROD SEAL

Twin Lip
Polyurethane

PART NUMBER RANGE

METRIC						
$Ød_1$	TOL f9	$ØD_1$	TOL Js11	SL	L_1 +0.25-0	PART No.
45.00	-0.03 -0.09	55.00	+0.10 -0.10	8.20	9.00	4845700
45.00	-0.03 -0.09	55.00	+0.10 -0.10	10.00	11.00	4302600
45.00	-0.03 -0.09	57.70	+0.10 -0.10	9.50	10.50	4322800
45.00	-0.03 -0.09	60.00	+0.10 -0.10	10.00	11.00	4315400
45.00	-0.03 -0.09	60.00	+0.10 -0.10	11.40	12.50	4619900‡
45.00	-0.03 -0.09	65.00	+0.10 -0.10	10.00	11.00	4315500
47.00	-0.03 -0.09	56.33	+0.10 -0.10	9.00	10.00	4778000
48.00	-0.03 -0.09	56.00	+0.10 -0.10	11.40	12.50	4629800
48.00	-0.03 -0.09	60.00	+0.10 -0.10	10.00	11.00	4432600
50.00	-0.03 -0.09	57.00	+0.10 -0.10	9.00	10.00	4538600
50.00	-0.03 -0.09	60.00	+0.10 -0.10	6.00	7.00	4611800
50.00	-0.03 -0.09	60.00	+0.10 -0.10	7.30	8.00	4306000‡
50.00	-0.03 -0.09	60.00	+0.10 -0.10	8.20	9.00	4845800
50.00	-0.03 -0.09	60.00	+0.10 -0.10	10.00	11.00	4304500
50.00	-0.03 -0.09	60.00	+0.10 -0.10	11.80	13.00	4314400
50.00	-0.03 -0.09	62.70	+0.10 -0.10	9.50	10.50	4334400
50.00	-0.03 -0.09	63.00	+0.10 -0.10	10.00	11.00	4804400

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PART NUMBER RANGE

METRIC						
$Ød_1$	TOL f9	$ØD_1$	TOL Js11	SL	L_1 +0.25-0	PART No.
50.00	-0.03 -0.09	65.00	+0.10 -0.10	9.00	10.00	4611900
50.00	-0.03 -0.09	65.00	+0.10 -0.10	9.50	10.50	4344000
50.00	-0.03 -0.09	65.00	+0.10 -0.10	10.00	11.00	4617000
50.00	-0.03 -0.09	65.00	+0.10 -0.10	10.90	12.00	4291700
50.00	-0.03 -0.09	65.00	+0.10 -0.10	11.40	12.50	4625400‡
50.00	-0.03 -0.09	65.00	+0.10 -0.10	14.50	16.00	4381900
50.00	-0.03 -0.09	70.00	+0.10 -0.10	12.00	13.00	4612000
53.00	-0.03 -0.10	63.00	+0.10 -0.10	6.00	7.00	4617700
53.00	-0.03 -0.10	65.00	+0.10 -0.10	9.00	10.00	4371700
55.00	-0.03 -0.10	63.00	+0.10 -0.10	8.20	9.00	4863400
55.00	-0.03 -0.10	65.00	+0.10 -0.10	6.00	7.00	4615600
55.00	-0.03 -0.10	65.00	+0.10 -0.10	7.30	8.00	4703500
55.00	-0.03 -0.10	65.00	+0.10 -0.10	8.20	9.00	4360400
55.00	-0.03 -0.10	65.00	+0.10 -0.10	10.00	11.00	4306100
55.00	-0.03 -0.10	65.00	+0.10 -0.10	11.80	13.00	4323400
55.00	-0.03 -0.10	68.00	+0.10 -0.10	10.00	11.00	4593800
55.00	-0.03 -0.10	70.00	+0.10 -0.10	9.00	10.00	4612100

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